

ABSTRACT

5 Methods are provided for altering the cleavage specificity
of a Type IIG restriction endonuclease, the Type IIG restriction
endonuclease being characterized by a cleavage domain
adjacent to a methylase domain, the methylase domain
located adjacent to a specificity domain. The method includes
ligating DNA or protein sequences to form a fusion DNA or
10 fusion protein. Where a fusion DNA is formed, the host cell is
transformed with the fusion DNA to express a Type IIG
restriction endonuclease with altered cleavage specificity.